

phosphor comprises 0.001% to 10% of a europium activator, and wherein the phosphor comprises 0.001% to 10% of at least one dopant selected from the group consisting of lanthanum, cerium, praseodymium, neodymium, samarium, gadolinium, dysprosium, holmium, erbium, thulium, ytterbium, lutetium, tin and bismuth as a co-activator, in terms of mol % relative to by M.

27. The phosphorescent marine device according to claim 26, wherein the device is a buoy cap.

28. (Twice Amended) A phosphorescent device for mounting on a buoy, the marine device removable from and replaceable on the buoy:

- the device selected from the group consisting of a buoy cap and a buoy wrap;
- the device including a phosphorescent phosphor such that substantially the entire device is phosphorescent;

wherein, the phosphorescent phosphor has an afterglow corresponding to a luminance of at least 0.3 mCd/m² for at least about 420 minutes.

29. The phosphorescent device according to claim 28, wherein the device is a buoy cap.

30. The phosphorescent marine device according to claim 26, wherein the device is a buoy wrap.

31. The phosphorescent device according to claim 28, wherein the device is a buoy wrap.